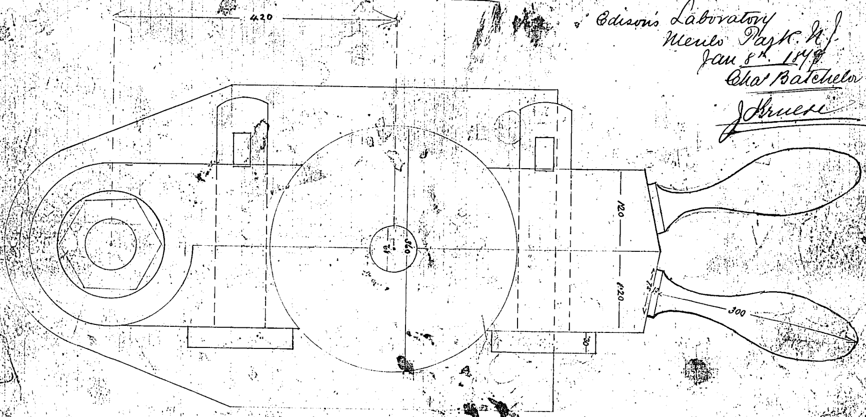
1878. Telephone (NS-78-011)

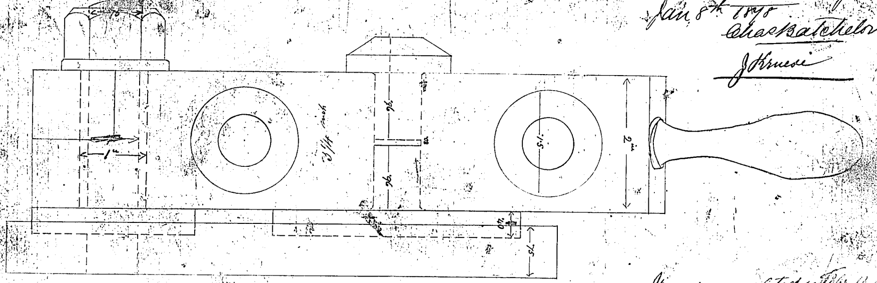
Mould for Speaking telepone Compositions

Edison's Laboratory
Menlo Park N.J.
Jan 8th 1879
Chas Batchelor
J Kruesi


420
120
120
12
020
15
300
30

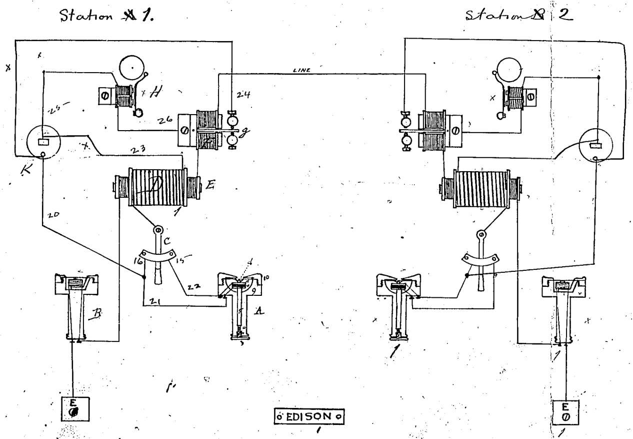
Mould for Speaking telephone Compositions.

Edison's Laboratory
Menlo Park NJ
Jan 8th 1878
Chas Batchelor
J Kruesi


1"
3 1/4 inch
.96
.96
1.5
2"
.75

No. 1. completed Febr. 13. 1878
No. 2. " Augst. 5th 1878

Case No 151


Station ~~A~~ 1.
Station ~~B~~ 2
LINE
x
x
H
x
24
25
26
g
K
x
23
D
E
20
C
16
15
4
10
22
9
21
B
5
A
3
E
EDISON
E

Patent Office Model for
Edisons Speaking Telephone
Menlo Park, N.J. Feb 6th 1878.
Chas Batchelor.

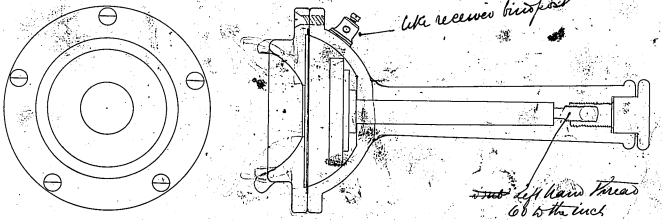
Finished Feb. 13. 1878 J Kruesi

T. A. Edison
Telephone
Case 151.

Recd Feb. 19. 1878.

Edison's
Design for Cast Iron transmitter
No 28.

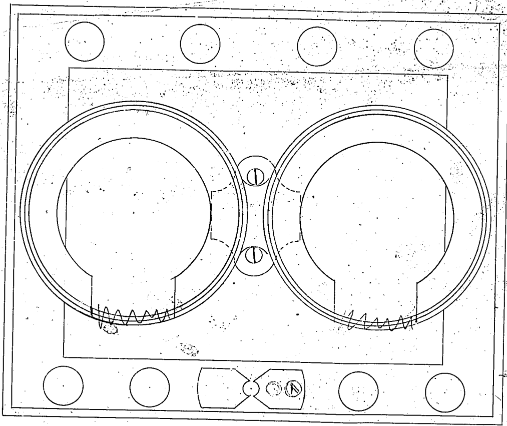
Chas Batchelor Mch. 22 1878
Menlo Park, N.J.



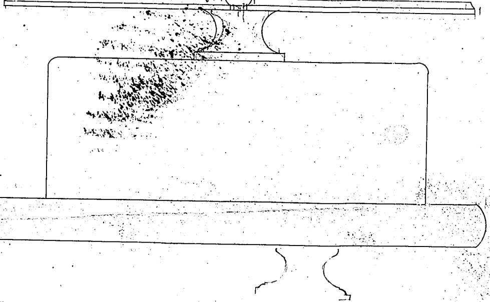
like receiver bindpost

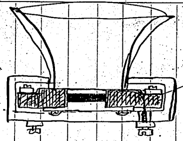
~~inch~~ Left hand thread
60 to the inch

J Kruesi

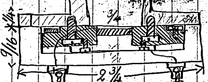


Bracket for telephone rest on coil box
Edison's Speaking telephone
May 2d 1878
No 46
Chas Batchelor
May 2d 1878 John Kruesi





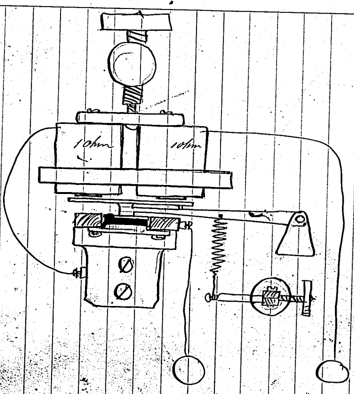
thin sheet rubber stretched across to keep out wet



Direct Telephone
Rubber
June 21 1878

Thomas A Edison
Chas Batchelor
J Kruesi

cup inside 2 1/16 3/8 De



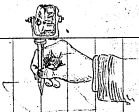
Automatic Current regulator
with magnet and Carbons

June 21 1878

Thos A. Edison

Chas Batchelor

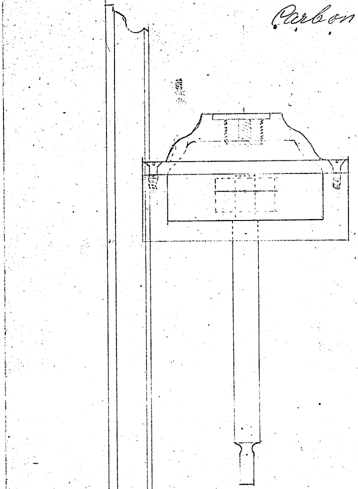
J. Kruesi



Carbon Repeater June 21st 1878

J Kruesi

Chas Batchelor



Speaking Telephone

Number	Diaphragm in Receiver	Diaphragm on Transmitter		Transmitter pattern		Battery Binding posts marked	Magnet	Remarks
		Ferrotype	Tin	from inside	outside			
1	Tin							
2							our own	
							"	
15	Tin							
16	"				—	C Z	our own	
17								Paris
								Paris
19								
20								Paris
								Paris

Hyperoxide lead —

Initial, 11 ohms

5 grams 7

15 " 4

Sept 18, 1878
T A Edison

NG

Hyperoxide lead button

Initial def 6¼ · equal 25 ohms

{ 2 grams, 9½ 14 ohms
{ 2 " 7¾ 18

1.6
50 grammes, def. 42, 2.9
33½
" 36 2.4
" 5-6
25 grammes, 20 7.9 — about
15
" " 15 7.9
5 26.9
5 " 18.9
5 " 7 18.9
5 " 7
nothing 4 34.9
4 34.9
4 34.9

Unbound Notes and Drawings, 1874-1878

1878. Telephone (NS-78-011)

[These pages probably follow the document on Reel 7, Frame 924.]

another button Hyperbol'd.

Initial -
def. 24 — 4.5
30, 3.3.

Sept 18 1878
7a9 [illegible]

Chas Batchelor

Phenomenon: needle gradually falls whether by jarring decomposition of polarization cant say! Think it jarring because slight tap throws needle down to 15 or 7.7 ohms, pressing on it & then releasing needle goes to 26 or 4 ohms. Tapping again ~~[illegible]~~ sends needle to 13. or 9.3. pressing & releasing needle, goes to, 30. or 3.3.
Standing at 25 2 gram make needle go to 28½ ditto 23 to 27. do 22½ to 26, ~~[illegible]~~ do 21
5 grams 22½ to. 30
to 31½

		1 ohm,
	52,	
500grms,	52	1 "
"	54	.9 —
25 —	48	1.2
25 —	48	1.2
25 —	48	1.2

Unbound Notes and Drawings, 1874-1878

1878. Telephone (NS-78-011)

[These pages probably follow the document on Reel 7, Frame 924.]

do

	def	Res
25 —	48.	1 .2

Telephone

Sept 18 1878
T A Edison

Our lampblack (Characteristics

	def	Res
1 Initial	~~4~~ 9.	13. .6.
	10.	11 .6
	10	11 .6
	9	13 .6
	10	11 .6
		9 .9

2 grms from 10 to 12½
8 to 9¾ — def of 2 ohms

Initial def = 7 — 10 grms takes it to 17 or def 10 ohms
again " " 8. 10 " " 17.
17.9. 8 10 " 25 — 13 ohms.

50 grames, def 38. —— 2 ohms Res.
Same ——

25 grms def 32 | " — Res 2 .9
31
30,

Unbound Notes and Drawings, 1874-1878

1878. Telephone (NS-78-011)

[These pages probably follow the document on Reel 7, Frame 924.]

do Telephone

Iodide Copper,

Initial, def 1½ —

" 3½

½

Sept 18 1878
7 a.m.

102 ohms —
39.7
Chas Batchelor

5 grms from ½ to 1½

10

25 Scarcely any def

50 grams goes to 1½

10.9

carbon reduced to .9 ohm

by greatest pressure

goes to 2½

50 grms

50 "

50 "

50 " Left hand Telephone

4045 ½

Unbound Notes and Drawings, 1874-1878

1878. Telephone (NS-78-011)

[These pages probably follow the document on Reel 7, Frame 924.]

Tests of Button of different material,
with pressure increasing gramme at a time;
No 4 Coil, 1 Carbon Cell,

Electrotypers plumbago, ~~[illegible]~~ 17/10, ~~[illegible]~~ ohms

weight of Top armature,
with 5 grams ~~4/10 4 .03 .02 .04~~ 8/10
3/10
15 – grms;
25 — 8/100 — .4/10
1/10 & 04.
50,
.04, .03, .02; .01.
75

T A Edison
Chas Batchelor

Unbound Notes and Drawings, 1874-1878

1878. Telephone (NS-78-011)

[These pages probably follow the document on Reel 7, Frame 924.]

Ex E. M.

TA Edison

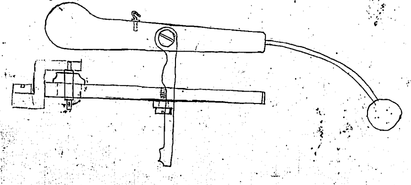
Electro motograph Oct 10.1878

Geo E Carman

M N Force

Chas Batchelor

J Kruesi



Elec 712

Electro Motograph Octr 10.78

J Kruesi
TA Edison
Chas Batchelor
G E Carman
M N Force

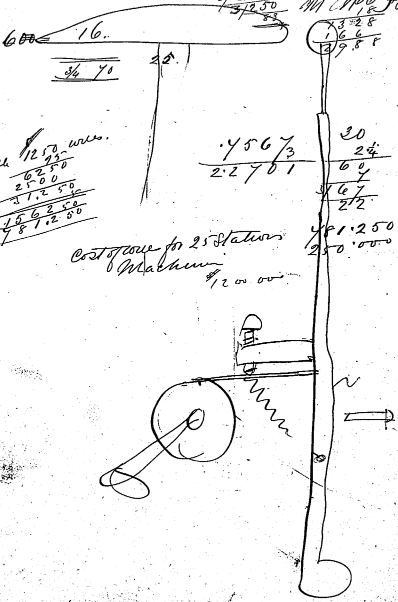
Wire
1" long 1/8 square

.0005
180
.0000900

.0. 8/100
12

8/2000
3/250
83

18
1328
166
2988



3/4 70

2000 feet
125000
625.00 double

$1250 wires.
25
6250
2500
31250
156250
781250

781.250

.4567/3
2.2701

30
2 1/4
60
7
3/67
22

Cost of wire for 25 Stations 781.250
250.000

Machine $1200.00

25
200
5000
15
75.000
78000
150.000
25

Exhibition Electromotograph

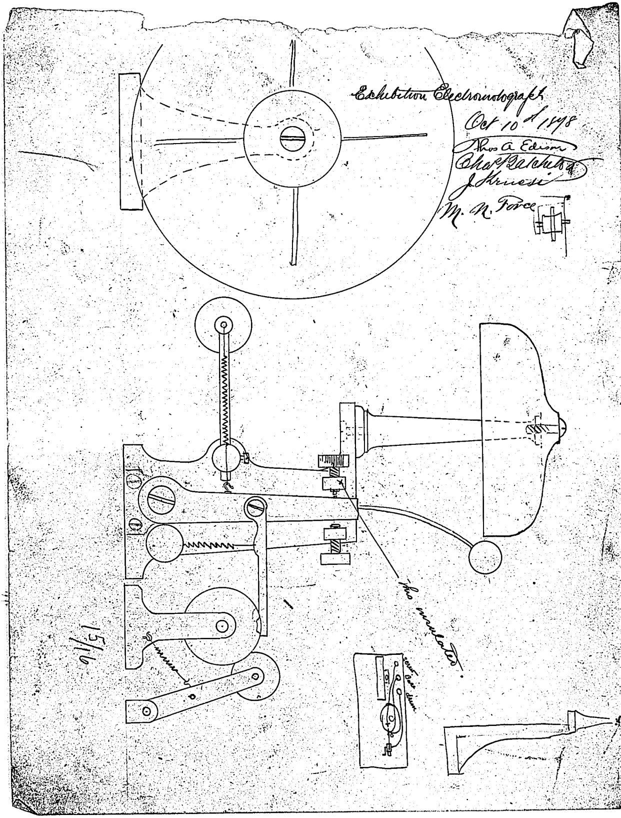
Oct 10th 1878

Thos A Edison

Chas Batchelor

J Kruesi

M. N. Force


fibre insulated.
15/16
screw bar drum

Ce

Electro motograph Oct 10. 1878

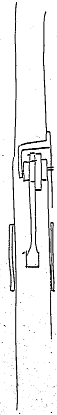
T A Edison

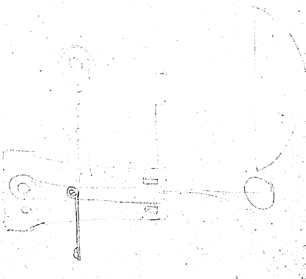
G E Carman

Martin N. Force

Chas Batchelor

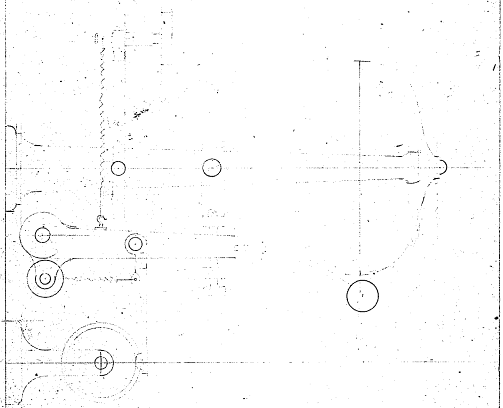
J Kruesi





T A Edison
G E Carman
Electro motograph Oct 10-1878
M N Force

Chas Batchelor
J Kruesi



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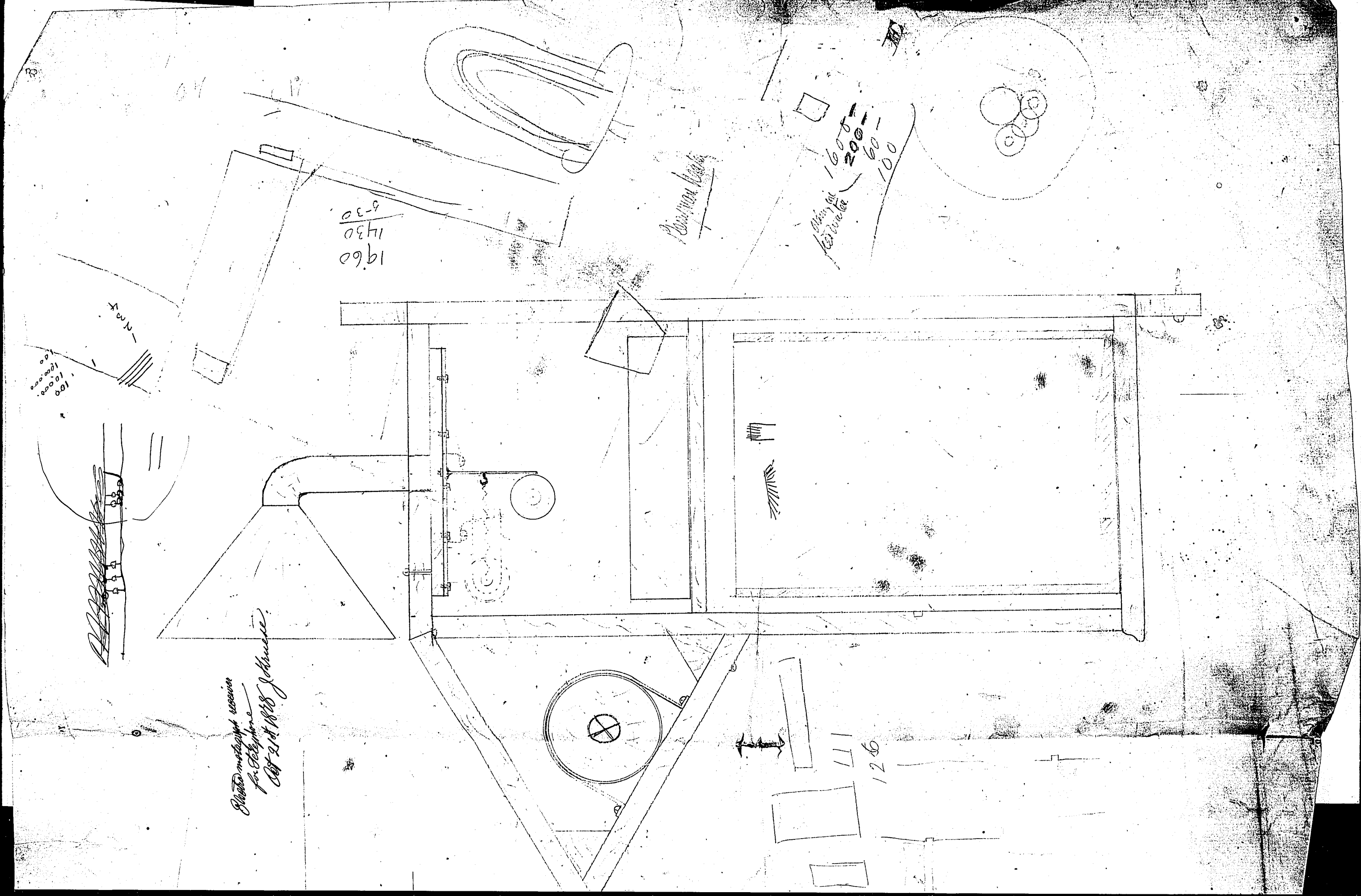
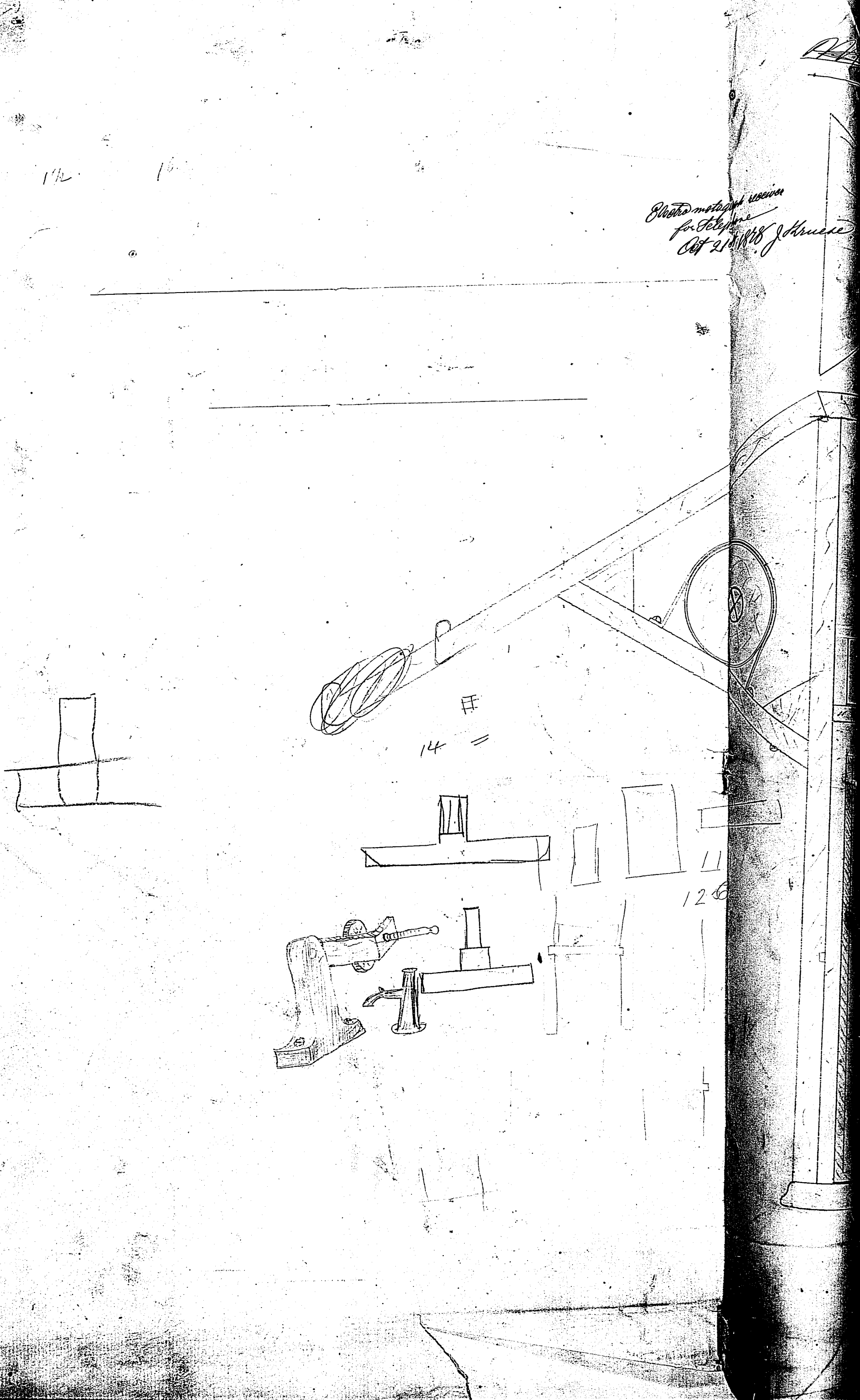


Electro motograph receiver for telephone Oct 21st 1878 J Kruesi

1960
1430
6-30
1600
200
60
100
111
126

[CONTINUED FROM THE PRECEDING FRAME]


1½
16
14
11
12

Electromotograph receiver
for Telephone
Oct 21st 1878 J Kruesi